

1600

RAW SEQUENCE LISTING DATE: 01/15/2004 PATENT APPLICATION: US/09/762,767B TIME: 10:02:00

Input Set : A:\VOS-101SEQLIST.TXT

Output Set: N:\CRF4\01152004\I762767B.raw

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4 <110> APPLICANT: SCHMIDT, Harald
         ZABEL, Ulrike
         POLLER, Wolfgang
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 8 <120> TITLE OF INVENTION: Isolated and Purified Human Soluble
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12 <130> FILE REFERENCE: VOS-101
14 <140> CURRENT APPLICATION NUMBER: US 09/762,767B
15 <141> CURRENT FILING DATE: 2001-06-01
17 <150> PRIOR APPLICATION NUMBER: PCT/DE99/02601
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20 <150> PRIOR APPLICATION NUMBER: DE 198 37 015.6
21 <151> PRIOR FILING DATE: 1998-08-14
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38 gtgtgcgaag ccaccaagac tgcggctctt ggagaaagcg tgagcagggg gccaccgcgg 360
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56 tocattocat ttoatgtttg acaaagatat gacaattotg caatttggca atggcatcag 1440

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95 Ala Ala Gly Ser Ser Glu Ser Cys Lys Ala Thr Val Pro Ile Cys Gln
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99 Ser Arg Ser Arg Val Tyr Leu His Thr Leu Ala Glu Ser Ile Cys Lys
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101 Leu Ile Phe Pro Glu Phe Glu Arg Leu Asn Val Ala Leu Gln Arg Thr
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103 Leu Ala Lys His Lys Ile Lys Glu Ser Arg Lys Ser Leu Glu Arg Glu
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105 Asp Phe Glu Lys Thr Ile Ala Glu Gln Ala Val Ala Ala Gly Val Pro
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107 Val Glu Val Ile Lys Glu Ser Leu Gly Glu Glu Val Phe Lys Ile Cys
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		Phe	Leu	Asn	Ser	Phe	Ser	Thr	Leu	Leu	Lys	Gln	Ser	Ser	His	Cys
112	1				165					170	-				175	-
	Gln	Glu	Ala	Gly	Lys	Arg	Gly	Arq	Leu	Glu	Asp	Ala	Ser	Ile	Leu	Cys
114				180	· 1	,	2	,	185		-			190		-
	Leu	Asp	Lvs	Glu	Asp	Asp	Phe	Leu	His	Val	Tvr	Tvr	Phe	Phe	Pro	Lys
116			195		1			200			-	-	205			-
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120			-			230					235					240
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124				260			_		265					270		
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131	Glu	Glu	Tyr	Phe	Glu	Ile	Leu	Thr	Pro	Lys	Ile	Asn	Gln	Thr	Phe	Ser
132					325					330					335	
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134				340	,				345					350		
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138		370					375					380				
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139 140 141	385	Cys	Val		Arg	390	375 Glu		· ·	Arg	395	Arg		Leu	Tyr Ile	Leu 400
139 140 141 142	385 Ser	Cys Asp	Val Ile	Asp Pro	Arg Ile 405	390 His	375 Glu Asn	Ala	Leu	Arg 410	395 Asp	Arg Val	Val	Leu Leu	Tyr Ile 415	Leu 400 Gly
139 140 141 142 143	385 Ser	Cys Asp	Val Ile	Asp Pro Arg	Arg Ile 405	390 His	375 Glu Asn	Ala	Leu Leu	Arg 410	395 Asp	Arg Val	Val	Leu Leu Gly	Tyr Ile 415	Leu 400 Gly
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139 140 141 142 143 144 145	385 Ser Glu	Cys Asp Gln	Val Ile Ala Thr	Asp Pro Arg	Arg Ile 405 Ala	390 His Gln	375 Glu Asn Asp	Ala Gly His	Leu Leu 425	Arg 410 Lys	395 Asp Lys	Arg Val Arg	Val Leu Glu	Leu Leu Gly 430	Tyr Ile 415 Lys	Leu 400 Gly Leu
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139 140 141 142 143 144 145 146 147	385 Ser Glu Lys	Cys Asp Gln Ala Thr 450	Val Ile Ala Thr 435 Val	Asp Pro Arg 420 Leu Asp	Arg Ile 405 Ala Glu Leu	390 His Gln Gln Leu	375 Glu Asn Asp Ala Cys 455	Ala Gly His 440 Ser	Leu Leu 425 Gln Ile	Arg 410 Lys Ala Phe	395 Asp Lys Leu Pro	Arg Val Arg Glu Cys 460	Val Leu Glu 445 Glu	Leu Leu Gly 430 Glu Val	Tyr Ile 415 Lys Lys Ala	Leu 400 Gly Leu Lys Gln
139 140 141 142 143 144 145 146 147 148	385 Ser Glu Lys Lys Gln	Cys Asp Gln Ala Thr 450	Val Ile Ala Thr 435 Val	Asp Pro Arg 420 Leu	Arg Ile 405 Ala Glu Leu	390 His Gln Gln Leu Gln	375 Glu Asn Asp Ala Cys 455	Ala Gly His 440 Ser	Leu Leu 425 Gln Ile	Arg 410 Lys Ala Phe	395 Asp Lys Leu Pro	Arg Val Arg Glu Cys 460	Val Leu Glu 445 Glu	Leu Leu Gly 430 Glu Val	Tyr Ile 415 Lys Lys Ala	Leu 400 Gly Leu Lys Gln Val
139 140 141 142 143 144 145 146 147 148 149	385 Ser Glu Lys Lys Gln 465	Cys Asp Gln Ala Thr 450 Leu	Val Ile Ala Thr 435 Val	Asp Pro Arg 420 Leu Asp	Arg Ile 405 Ala Glu Leu Gly	390 His Gln Gln Leu Gln 470	375 Glu Asn Asp Ala Cys 455 Val	Ala Gly His 440 Ser Val	Leu Leu 425 Gln Ile Gln	Arg 410 Lys Ala Phe	395 Asp Lys Leu Pro Lys 475	Arg Val Arg Glu Cys 460 Lys	Val Leu Glu 445 Glu Phe	Leu Leu Gly 430 Glu Val	Tyr Ile 415 Lys Lys Ala Asn	Leu 400 Gly Leu Lys Gln Val 480
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139 140 141 142 143 144 145 146 147 148 149 150 151 152 153	385 Ser Glu Lys Lys Gln 465 Thr	Cys Asp Gln Ala Thr 450 Leu Met	Val Ile Ala Thr 435 Val Trp Leu	Asp Pro Arg 420 Leu Asp Gln Phe Leu	Arg Ile 405 Ala Glu Leu Gly Ser 485	390 His Gln Gln Leu Gln 470 Asp	375 Glu Asn Asp Ala Cys 455 Val	Ala Gly His 440 Ser Val	Leu Leu 425 Gln Ile Gln Gly Met	Arg 410 Lys Ala Phe Ala Phe 490	395 Asp Lys Leu Pro Lys 475 Thr	Arg Val Arg Glu Cys 460 Lys Ala	Val Leu Glu 445 Glu Phe	Leu Leu Gly 430 Glu Val Ser Cys Tyr	Tyr Ile 415 Lys Lys Ala Asn Ser 495	Leu 400 Gly Leu Lys Gln Val 480 Gln
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213 tgtcatagga cagcggatgc ctcgatactg tctttttggg aatactgtca acctcacaag 1740
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237 Glu Glu Gly Gln Phe Leu Val Arg Ile Ile Tyr Asp Asp Ser Lys Thr
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239 Tyr Asp Leu Val Ala Ala Ala Ser Lys Val Leu Asn Leu Asn Ala Gly
241 Glu Ile Leu Gln Met Phe Gly Lys Met Phe Phe Val Phe Cys Gln Glu
242 65
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243 Ser Gly Tyr Asp Thr Ile Leu Arg Val Leu Gly Ser Asn Val Arg Glu
244
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245 Phe Leu Gln Asn Leu Asp Ala Leu His Asp His Leu Ala Thr Ile Tyr
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247 Pro Gly Met Arg Ala Pro Ser Phe Arg Cys Thr Asp Ala Glu Lys Gly
249 Lys Gly Leu Ile Leu His Tyr Tyr Ser Glu Arg Glu Gly Leu Gln Asp
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251 Ile Val Ile Gly Ile Ile Lys Thr Val Ala Gln Gln Ile His Gly Thr
252 145
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253 Glu Ile Asp Met Lys Val Ile Gln Gln Arg Asn Glu Glu Cys Asp His
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255 Thr Gln Phe Leu Ile Glu Glu Lys Glu Ser Lys Glu Glu Asp Phe Tyr
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            195
                                200
259 Ser Pro Tyr Thr Phe Cys Lys Ala Phe Pro Phe His Ile Ile Phe Asp
```

VERIFICATION SUMMARY

DATE: 01/15/2004

PATENT APPLICATION: US/09/762,767B

TIME: 10:02:01

Input Set : A:\VOS-101SEQLIST.TXT

Output Set: N:\CRF4\01152004\I762767B.raw